

DERWENT-ACC-NO: 1994-090304

DERWENT-WEEK: 199411

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TITLE: New strain of Escherichia coli - used in microbiological industry as producer of L-histidine

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PATENT-ASSIGNEE: IND MICROORGANISMS GENETICS & SELECTION[INMIR]

PRIORITY-DATA: 1992SU-5034791 (March 30, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RU 2003677 C1	November 30, 1993	N/A	004	C12N 001/20

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
RU 2003677C1	N/A	1992SU-5034791	March 30, 1992

INT-CL (IPC): C12N001/20, C12P013/24

ABSTRACTED-PUB-NO: RU 2003677C

BASIC-ABSTRACT:

New strain of Escherichia coli, registered under No. VKPM B-5945 can be used in microbiological industry as producer of L-histidine.

New strain-producer is obtd. from starting strain of E. coli with mutation in gene hisG. by introducing series of extra-operone mutations increasing expression of histidine operone. New strain is resistant to kanamycin, streptomycin and sodium arsenate and produces 10-12 g/l of L-histidine in cultural liq., after 72 hrs. of cultivation, compared to 2-3 g/l for prototype strain-producer (E. coli).

USE/ADVANTAGE - In microbiological industry and biotechnology, as new bacterial strain-producer of L-histidine used in medicine, biochemical and pharmaceutical industry. New strain has increased productivity.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NEW STRAIN ESCHERICHIA COLI MICROBIOLOGICAL INDUSTRIAL PRODUCE

HISTIDINE

ADDL-INDEXING-TERMS:

MEDICINE PHARMACEUTICAL BIOCHEMICAL

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B04-F10A3; B07-D09; D05-H04; E07-D09B;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M710 M903 N131 Q233 V500 V540

Chemical Indexing M2 \*02\*

Fragmentation Code

F014 F521 H1 H100 H181 J0 J011 J1 J171 M280

M312 M321 M332 M343 M349 M371 M391 M413 M510 M521

M530 M540 M720 M800 M903 M904 M910 N131 N184 Q233

Chemical Indexing M3 \*02\*

Fragmentation Code

F014 F521 H1 H100 H181 J0 J011 J1 J171 M280

M312 M321 M332 M343 M349 M371 M391 M413 M510 M521

M530 M540 M720 M800 M903 M904 M910 N131 N184 Q233

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1636P

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-041724